

Cassette fan coils

IWC 3 - 9 kW



The IWC range combines solidity and efficiency in a single product

IWC by Galletti stands out for the quality of the components and the care taken in assembly and in the details.

The fluid-dynamic optimization at the design stage can be seen in the centrifugal fan with backward-curving blades, statically and dynamically balanced for a correct air flow.

The cassette allows the fan speed to be varied among 4 different steps, thus ensuring excellent modulation in the delivery of power and incredibly low noise levels at the operating speeds. It is moreover equipped with a level sensor and condensate drainage pump already integrated in the unit.

These features make IWC a perfect indoor unit in terms of comfort, reliability and durability like only a product made in Italy can be.

The range is completed by a model with an integrated air sanitisation and ionisation system which is capable of assuring the cleanliness and hygiene of both the unit and the air inside the room. Its aesthetic and constructive features make IWC perfect for installation in any interior with a standard modular false ceiling.

PLUS

- ✓ 4-speed fan drive assembly
- ✓ Robust structure and attractive design
- ✓ Possibility of using a sanitisation system
- ✓ Fresh air drawn directly into the intake compartment
- ✓ Possibility of connecting 4-pipe systems in the absence of glycol to a single-heat exchanger unit by means of a 4 x 2 valves kits



AVAILABLE VERSIONS

IWCT Unit with one heat exchanger and IR remote control
IWCF Unit with one heat exchanger and wired controller

IWC F BIO Sanitised unit with one heat exchanger and wired controller
IWC DF Unit with two heat exchangers and wired controller



MAIN COMPONENTS

Structure

Made from galvanised steel sheet, externally and internally insulated with heat and soundproofing material. The structure houses the main components and is configured for the introduction of air from an external source.

Heat exchanger

High efficiency heat exchanger made with copper piping and aluminium fins blocked to pipings by mechanical expansion, provided with air vent valves.

Front grille

Complete with filter and adjustable air outlet louvers. Different models of panel based on the type of adjustment selected. Possibility of moving the motorized flap with IR remote control. LED indications of operating status and errors.



Air intake and outlet panel

Colour Ral 9001, with preformed air passages made of high density expanded polystyrene and plastic intake port ensuring effective resistance to mechanical wear.



Fan

Centrifugal fan with backward-curving blades with blade profile designed so as to obtain a stable air flow and extremely quiet, efficient operation even at slow fan speeds.

Electric motor

Asynchronous, mounted on 3 vibration-damping supports and directly coupled to the fan. The motor enables operation at 4 different speeds in order to ensure a more precise adjustment.

CONTROL MODE



IR remote control

The IR control offers the possibility of managing the operation of the indoor unit remotely with utmost convenience



Standard wired controller

The cassette is configured to be connected to the wall-mounted controllers included in the Galletti range



Control with wired controller and sanitisation system

Thermostat control and air sanitisation in a single product

ACCESSORIES

Control panels

TD4T	Wall-mounted speed selector, thermostat and summer/winter selecting switch for 2 or 4-pipe systems with valves
KP	Power interface for connecting in parallel up to 4 fan coils to one controller
MCBE	MYCOMFORT BASE electronic controller with display
MCME	MYCOMFORT MEDIUM electronic controller with display
MCLE	MYCOMFORT LARGE electronic controller with display
DIST	MYCOMFORT controller spacer for wall mounting
EVODISP	EVO CLOCK Remote display
EVOBOARD	EVO 230V circuit board
LED503	LED503 Recess wall-mounted electronic controller with display

CO (B-G-W)	Plate for LED503, white W (RAL 7031), grey G (RAL 9003), black B (RAL 9005)
MCSWE	Water sensor for EVO, MYCOMFORT BASE, MEDIUM, LARGE, and LED503 microprocessor controllers
MCSUE	Humidity sensor for EVO, MYCOMFORT MEDIUM and LARGE microprocessor controller
Motor driven on/off and modulating valves	
VK	2-/3-way motor driven ON/OFF valve (230V and 24V actuator) complete with plumbing kit for models with 1 and 2 heat exchangers
VKM	2-/3-way motor driven modulating valve (24V actuator) complete with plumbing kit for models with 1 and 2 heat exchangers
4X2	Kit for 4-pipe systems composed of a 4x2 motor driven ON/OFF or modulating valve (230V and 24V actuator) and plumbing kit for models with 1 heat exchanger

Rated technical data, models with 1 heat exchanger

IWC		32				42				52			
Speed		1	2	3	4	1	2	3	4	1	2	3	4
Total cooling capacity (1) (E)	kW	1,24	2,15	2,35	2,60	1,70	3,50	4,00	4,60	2,47	3,80	4,42	5,06
Sensible cooling capacity (1) (E)	kW	0,91	1,78	2,00	2,23	1,16	2,63	3,05	3,56	1,84	2,97	3,51	4,04
Water flow(1)	l/h	212	368	404	445	292	600	686	788	423	653	758	869
Water pressure drop (1) (E)	kPa	3	8	9	11	3	11	14	17	7	14	18	23
Heating capacity (2) (E)	kW	1,54	2,83	3,11	3,49	1,87	4,35	4,85	5,70	3,35	5,33	6,14	6,75
Water pressure drop (2) (E)	kPa	3	7	8	10	3	10	13	17	6	14	18	23
Heating capacity (3)	kW	2,64	4,87	5,35	6,00	3,14	7,38	8,20	9,65	5,74	9,15	10,5	11,5
Water flow (3)	l/h	232	427	469	527	275	648	719	847	504	803	924	1011
Water pressure drop (3)	kPa	3	9	10	12	2	11	13	18	8	19	24	28
Air flow	m ³ /h	180	400	460	520	200	530	630	750	370	630	760	880
Power input (E)	W	17	40	50	60	20	60	70	90	26	71	85	98
Sound power level (4) (E)	dB(A)	30	41	44	46	32	48	51	55	41	53	57	61

IWC		62				82			
Speed		1	2	3	4	1	2	3	4
Total cooling capacity (1) (E)	kW	4,20	5,00	5,42	6,00	5,50	6,50	8,00	9,10
Sensible cooling capacity (1) (E)	kW	3,14	3,70	3,99	4,40	4,11	5,08	6,10	6,84
Water flow(1)	l/h	721	859	930	1031	944	1116	1372	1561
Water pressure drop (1) (E)	kPa	16	22	25	30	21	28	41	51
Heating capacity (2) (E)	kW	5,40	6,40	7,10	7,70	6,28	8,52	9,42	10,2
Water pressure drop (2) (E)	kPa	16	21	25	30	20	27	39	48
Heating capacity (3)	kW	9,20	10,9	12,1	13,1	10,5	14,4	15,8	17,0
Water flow (3)	l/h	808	956	1063	1150	920	1267	1385	1491
Water pressure drop (3)	kPa	18	24	29	33	18	31	37	42
Air flow	m ³ /h	850	1060	1160	1300	830	1090	1270	1400
Power input (E)	W	80	90	100	120	80	100	120	140
Sound power level (4) (E)	dB(A)	43	48	49	51	37	46	50	53

Rated technical data, models with 2 heat exchangers

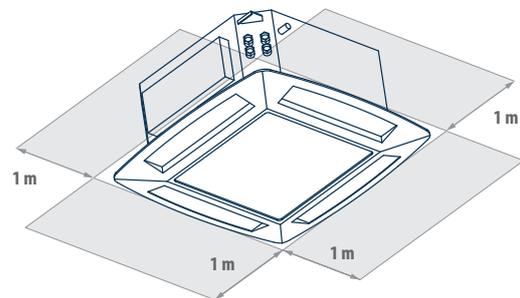
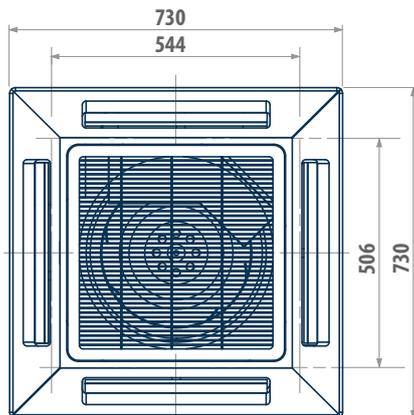
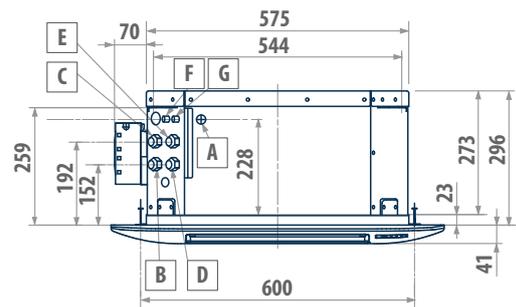
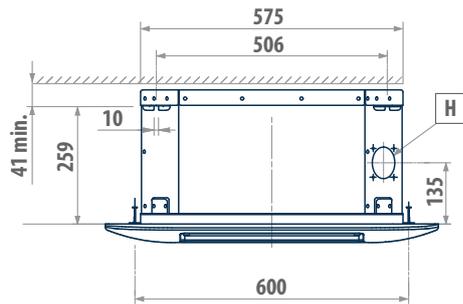
IWC		34				44			
Speed		1	2	3	4	1	2	3	4
Total cooling capacity (1) (E)	kW	1,10	1,72	1,88	2,05	1,58	2,88	3,28	3,76
Sensible cooling capacity (1) (E)	kW	0,83	1,51	1,66	1,82	1,10	2,27	2,60	3,00
Water flow(1)	l/h	189	295	323	351	272	494	562	645
Water pressure drop (1) (E)	kPa	4	8	9	11	4	11	13	17
Heating capacity (3) (E)	kW	1,10	1,78	1,95	2,20	1,48	2,87	3,14	3,76
Water flow (3)	l/h	97	156	171	193	130	252	276	330
Water pressure drop (3) (E)	kPa	11	25	29	36	7	22	26	36
Air flow	m ³ /h	180	400	460	520	200	530	630	750
Power input (E)	W	17	40	50	60	20	60	70	90
Sound power level (4) (E)	dB(A)	30	41	44	46	32	48	51	55

- (1) Water temperature 7 / 12°C, air temperature D.B. 27°C, W.B. 19°C (47% relative humidity)
 (2) Inlet water temperature 50°C, water flow rate same as in cooling mode, air temperature 20°C
 (3) Water temperature 70 / 60°C, air temperature 20°C
 (4) Sound power measured according to standards ISO 3741 and ISO 3742
 (E) EUROVENT certified data
 Power supply 230-1-50 (V-ph-Hz)



Dimensional drawings

IWC 032 - 042 - 052 - 034 - 044



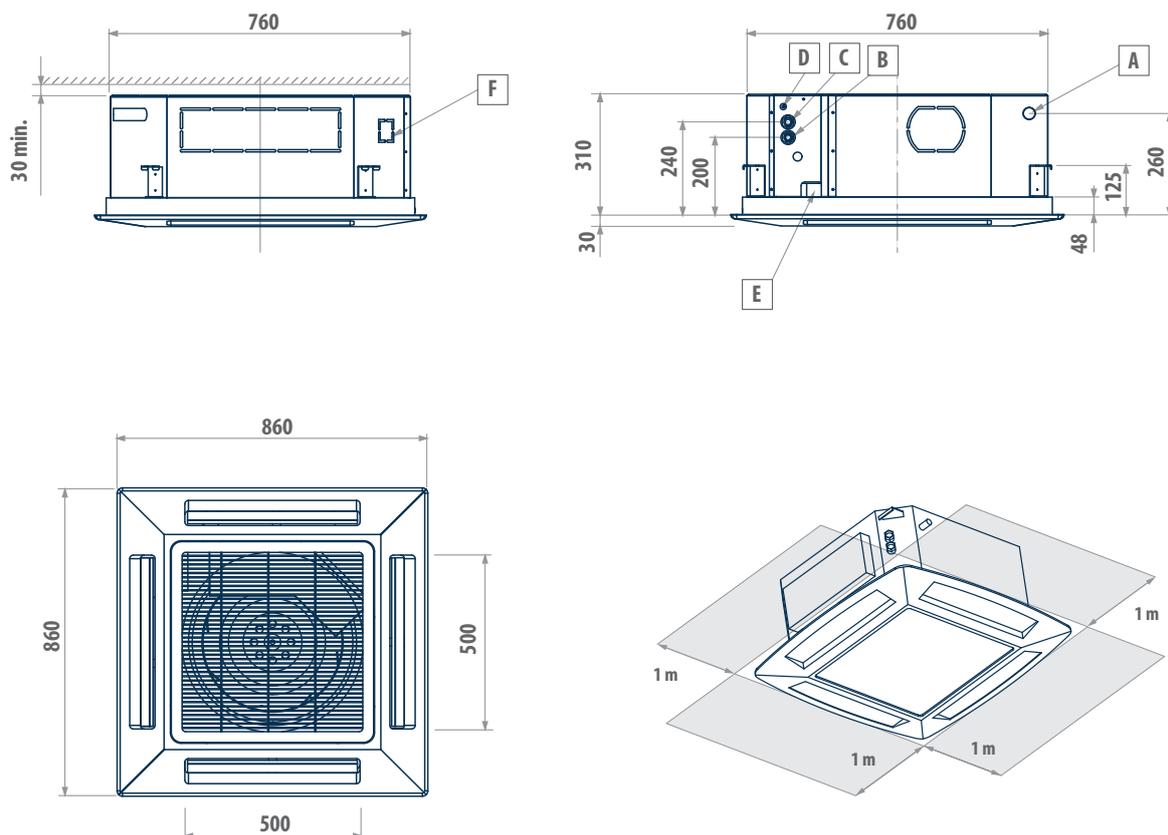
LEGEND

A	Condensate hole: Ø 18 mm
B	Main heat exchanger water inlet: ½" gas female
C	Main heat exchanger water outlet: ½" gas female
D	Additional heat exchanger water inlet: ½" gas female*
E	Additional heat exchanger water outlet: ½" gas female*
F	Main heat exchanger air vent
G	Additional heat exchanger air vent
H	External air intake: Ø 70 mm

* Present in models 34 / 44

Dimensional drawings

IWC 062



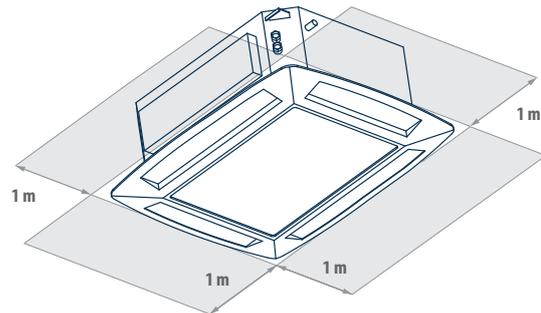
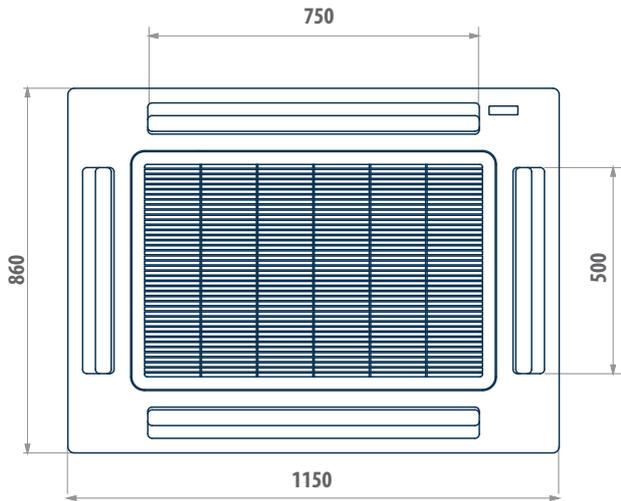
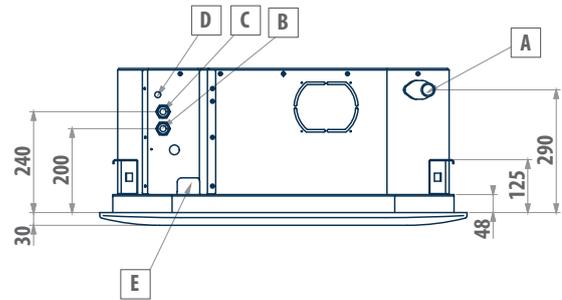
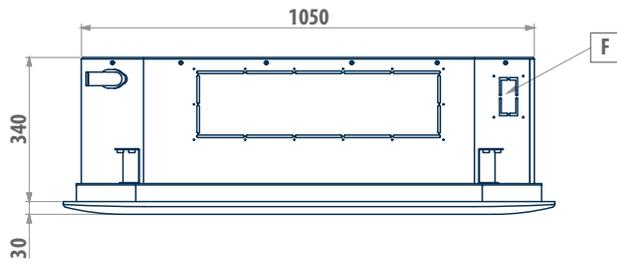
LEGEND

A	Condensate hole: \varnothing 32 mm
B	Water inlet: 3/4" gas female
C	Water outlet: 3/4" gas female
D	Heat exchanger air vent
E	Electrical cable passage
F	Fresh air intake: 60x55 mm



Dimensional drawings

IWC 082



LEGEND

A	Condensate hole: Ø 32 mm
B	Water inlet: 3/4" gas female
C	Water outlet: 3/4" gas female
D	Heat exchanger air vent
E	Electrical cable passage
F	Fresh air intake: 60x55 mm